

Step 1 : Provides a substrate.



Step 2 : Surface of substrate treated by microwave plasma field.



Step 3 : Homogeneously coating surface with an aniline containing solution.



Step 4 : Using a precise coating an oxidant solution was quantitatively coated on the aniline containing film to form a 3-dimensional order structure to polyaniline.



Step 5 : Homogeneously coating a blending agent onto the 3-dimensional order structure polyaniline film to form a blending effect 3-dimensional order structure polyaniline film with increased electrical conductivity.

**Fig. 1**